British Corrosion Journal Author index 1996

S. A. Abd El-Gawad *see* A. Baraka 119
S. M. L. Agostinho *see* P. R. P. Rodrigues 305
Z. Ahmad
Corrosion phenomena in coastal area of Arabian Gulf 191
M. Aindow *see* E. Schmidt-Rieder 139
M. M. Al-Abdallah
Impedance measurements on Inconel and Monel alloys in Dead Sea water and sulphate solution 213
J. N. Alhajji and M. R. Reda
Role of solution chemistry on corrosion of copper in synthetic solutions: effect of bicarbonate ion concentration on uniform and localised attack 125
A. Al-Hashem *see* H. M. Shalaby 199
K. Al-Muhanna *see* H. M. Shalaby 199
I. V. Aoki *see* P. R. P. Rodrigues 305
S. A. Ashton *see* M. I. Jafar 239

S. K. Bag, S. B. Chakraborty, A. Roy, and S. R. Chaudhuri
2-aminobenzimidazole as corrosion inhibitor for 70–30 brass in ammonia 207
A. Baraka, H. H. Rehan, M. S. Morsi, and S. A. Abd El-Gawad
Oxidation behaviour of zirconium in molten $(Na,K)NO_3$ eutectic containing halide ions 119
L. J. Berchmans, S. Muralidharan, N. S. Rengaswamy, S. Natarajan, V. Sivan, and S. Venkatakrishna Iyer
Stress corrosion cracking and hydrogen embrittlement susceptibility studies on modified 9Cr–1Mo steel weldments in acidic and neutral media 223
L. Bertolini, F. Bolzoni, T. Pastore, and P. Pedeferri
Behaviour of stainless steel in simulated concrete pore solution 218
A. J. Betts *see* P. A. Dearnley 235
M. V. Bhat *see* T. V. L. N. Rao 44
F. Bolzoni *see* L. Bertolini 218
M. Broadhurst *see* M. I. Jafar 239

S. B. Chakraborty *see* S. K. Bag 207
S. W. Chan *see* P. McIntyre 133
R. S. Chaudhary *see* A. Singh 300
S. R. Chaudhuri *see* S. K. Bag 207
Y.-G. Chun *see* S.-I. Pyun 147
V. Costa, A. M. Dias, C. M. Rangel, and L. F. Cruz
Corrosion behaviour of mild steel beneath porous plasma sprayed coatings 227
L. F. Cruz *see* V. Costa 227

A. H. P. de Andrade *see* P. R. P. Rodrigues 305
P. A. Dearnley, M. Oestgaard, A. J. Betts, and G. A. Wright
Corrosion response of fusion coated austenitic stainless steel 235
E. de Oliveira *see* P. R. P. Rodrigues 305
A. M. Dias *see* V. Costa 227
R. K. Dube and D. Singh
Effect of substrate porosity on the corrosion behaviour of electroless nickel–phosphorus coated powder metallurgy iron compacts and strip 61

M. Elboujdaini *see* A. W. Lui 158

J. P. G. Farr *see* E. Schmidt-Rieder 139

M. F. Gittos and T. G. Gooch
Effect of iron dilution on corrosion resistance of Ni–Cr–Mo alloy cladding 309
T. G. Gooch *see* M. F. Gittos 309
A. J. Griffiths *see* A. Turnbull 39

S. Hedlund *see* F. Zhu 113

P. Ivanov *see* G. Petkova 55

M. I. Jafar, M. Broadhurst, and S. A. Ashton
Some factors affecting corrosion resistance of electroless nickel 239

D. Landolt *see* C. Robyr 65
A. W. Lui, V. S. Sastri, M. Elboujdaini, and J. McGoey
Control of corrosive wear in grinding balls during wet grinding of Cu–Zn–Fe sulphide ore 158

L. Mascia and Z. Zhang
Metal protection by cold sintered silica gel coatings 76
J. E. O. Mayne
Inhibition of corrosion of iron and aluminium 233
F. Mazza *see* S. P. Trasatti 105
J. McGoey *see* A. W. Lui 158
P. McIntyre, C. M. Younes, and S. W. Chan
Synergistic effects of impurities and sensitisation on intergranular corrosion and stress corrosion cracking in type 316H austenitic stainless steel 133
P. Mettraux *see* C. Robyr 65
S.-M. Moon and S.-I. Pyun
Corrosion of PVC coated steel during thinning of 0·5M NaCl electrolyte layer 35
G. Moretti, G. Quartarone, A. Tassan, and A. Zingales
Some derivatives of indole as mild steel corrosion inhibitors in 0·5M sulphuric acid 49
M. S. Morsi *see* A. Baraka 119
B. Müller
Inhibition of corrosion of aluminium pigments by *ortho*-substituted phenol and aniline derivatives 315
S. Muralidharan *see* L. J. Berchmans 223

S. Natarajan *see* L. J. Berchmans 223

M. Oestgaard *see* P. A. Dearnley 235

C. L. Page *see* S. W. Yu 73
R. N. Parkins
Stress corrosion cracking of ferritic steels in acidic solutions 288
T. Pastore *see* L. Bertolini 218
P. Pedeferri *see* L. Bertolini 218
G. Petkova, E. Sokolova, S. Raicheva, and P. Ivanov
Inhibition of copper corrosion in a simulated cooling water by pyrophthalone compounds 55
S.-I. Pyun *see* S.-M. Moon 35
S.-I. Pyun and Y.-G. Chun
Role of alloying elements tin and aluminium in anodic behaviour of homogeneous copper based alloys in 3·5 wt-%NaCl solution 147

G. Quartarone *see* G. Moretti 49

S. Raicheva *see* G. Petkova 55
V. S. Raja and A. Ramkumar
Comparative study of intergranular corrosion behaviour of three high manganese austenitic stainless steels 153
V. S. Raja *see* A. Venugopal 318
A. Ramkumar *see* V. S. Raja 153
C. M. Rangel *see* V. Costa 227
T. V. L. N. Rao, M. V. Bhat, and D. H. Sastry
Corrosion and stress corrosion behaviour of an Mg–Li–Al alloy in presence of inhibitors in aqueous environments 44
M. R. Reda *see* J. N. Alhajji 125
H. H. Rehan *see* A. Baraka 119
N. S. Rengaswamy *see* L. J. Berchmans 223
C. Robyr, P. Mettraux, and D. Landolt
Microstructure and corrosion resistance of sputter deposited Fe–Cr–Mo coatings 65
P. R. P. Rodrigues, I. V. Aoki, A. H. P. de Andrade, E. de Oliveira, and S. M. L. Agostinho
Effect of benzotriazole on electrochemical and corrosion behaviour of type 304 stainless steel in 2M sulphuric acid solution 305
A. Roy *see* S. K. Bag 207
J. M. Ruiz-Prieto *see* F. Velasco 295
J. M. Ruiz-Román *see* F. Velasco 295

V. S. Sastri *see* A. W. Lui 158
D. H. Sastry *see* T. V. L. N. Rao 44
E. Schmidt-Rieder, X. Q. Tong, J. P. G. Farr, and M. Aindow
In situ electrochemical scanning probe microscopy corrosion studies on duplex stainless steel in aqueous NaCl solutions 139
H. M. Shalaby, A. Al-Hashem, and K. Al-Muhanna
Study of effect of pollutant additions on corrosion behaviour of Al–brass in sea water 199

British Corrosion Journal Author index 1996

S. A. Abd El-Gawad *see* A. Baraka 119
S. M. L. Agostinho *see* P. R. P. Rodrigues 305
Z. Ahmad
Corrosion phenomena in coastal area of Arabian Gulf 191
M. Aindow *see* E. Schmidt-Rieder 139
M. M. Al-Abdallah
Impedance measurements on Inconel and Monel alloys in Dead Sea water and sulphate solution 213
J. N. Alhajji and M. R. Reda
Role of solution chemistry on corrosion of copper in synthetic solutions: effect of bicarbonate ion concentration on uniform and localised attack 125
A. Al-Hashem *see* H. M. Shalaby 199
K. Al-Muhanna *see* H. M. Shalaby 199
I. V. Aoki *see* P. R. P. Rodrigues 305
S. A. Ashton *see* M. I. Jafar 239

S. K. Bag, S. B. Chakraborty, A. Roy, and S. R. Chaudhuri
2-aminobenzimidazole as corrosion inhibitor for 70–30 brass in ammonia 207
A. Baraka, H. H. Rehan, M. S. Morsi, and S. A. Abd El-Gawad
Oxidation behaviour of zirconium in molten $(Na,K)NO_3$ eutectic containing halide ions 119
L. J. Berchmans, S. Muralidharan, N. S. Rengaswamy, S. Natarajan, V. Sivan, and S. Venkatakrishna Iyer
Stress corrosion cracking and hydrogen embrittlement susceptibility studies on modified 9Cr–1Mo steel weldments in acidic and neutral media 223
L. Bertolini, F. Bolzoni, T. Pastore, and P. Pedeferri
Behaviour of stainless steel in simulated concrete pore solution 218
A. J. Betts *see* P. A. Dearnley 235
M. V. Bhat *see* T. V. L. N. Rao 44
F. Bolzoni *see* L. Bertolini 218
M. Broadhurst *see* M. I. Jafar 239

S. B. Chakraborty *see* S. K. Bag 207
S. W. Chan *see* P. McIntyre 133
R. S. Chaudhary *see* A. Singh 300
S. R. Chaudhuri *see* S. K. Bag 207
Y.-G. Chun *see* S.-I. Pyun 147
V. Costa, A. M. Dias, C. M. Rangel, and L. F. Cruz
Corrosion behaviour of mild steel beneath porous plasma sprayed coatings 227
L. F. Cruz *see* V. Costa 227

A. H. P. de Andrade *see* P. R. P. Rodrigues 305
P. A. Dearnley, M. Oestgaard, A. J. Betts, and G. A. Wright
Corrosion response of fusion coated austenitic stainless steel 235
E. de Oliveira *see* P. R. P. Rodrigues 305
A. M. Dias *see* V. Costa 227
R. K. Dube and D. Singh
Effect of substrate porosity on the corrosion behaviour of electroless nickel–phosphorus coated powder metallurgy iron compacts and strip 61

M. Elboujdaini *see* A. W. Lui 158

J. P. G. Farr *see* E. Schmidt-Rieder 139

M. F. Gittos and T. G. Gooch
Effect of iron dilution on corrosion resistance of Ni–Cr–Mo alloy cladding 309
T. G. Gooch *see* M. F. Gittos 309
A. J. Griffiths *see* A. Turnbull 39

S. Hedlund *see* F. Zhu 113

P. Ivanov *see* G. Petkova 55

M. I. Jafar, M. Broadhurst, and S. A. Ashton
Some factors affecting corrosion resistance of electroless nickel 239

D. Landolt *see* C. Robyr 65
A. W. Lui, V. S. Sastri, M. Elboujdaini, and J. McGoey
Control of corrosive wear in grinding balls during wet grinding of Cu–Zn–Fe sulphide ore 158

L. Mascia and Z. Zhang
Metal protection by cold sintered silica gel coatings 76
J. E. O. Mayne
Inhibition of corrosion of iron and aluminium 233
F. Mazza *see* S. P. Trasatti 105
J. McGoey *see* A. W. Lui 158
P. McIntyre, C. M. Younes, and S. W. Chan
Synergistic effects of impurities and sensitisation on intergranular corrosion and stress corrosion cracking in type 316H austenitic stainless steel 133
P. Mettraux *see* C. Robyr 65
S.-M. Moon and S.-I. Pyun
Corrosion of PVC coated steel during thinning of 0·5M NaCl electrolyte layer 35
G. Moretti, G. Quartarone, A. Tassan, and A. Zingales
Some derivatives of indole as mild steel corrosion inhibitors in 0·5M sulphuric acid 49
M. S. Morsi *see* A. Baraka 119
B. Müller
Inhibition of corrosion of aluminium pigments by *ortho*-substituted phenol and aniline derivatives 315
S. Muralidharan *see* L. J. Berchmans 223

S. Natarajan *see* L. J. Berchmans 223

M. Oestgaard *see* P. A. Dearnley 235

C. L. Page *see* S. W. Yu 73
R. N. Parkins
Stress corrosion cracking of ferritic steels in acidic solutions 288
T. Pastore *see* L. Bertolini 218
P. Pedeferri *see* L. Bertolini 218
G. Petkova, E. Sokolova, S. Raicheva, and P. Ivanov
Inhibition of copper corrosion in a simulated cooling water by pyrophthalone compounds 55
S.-I. Pyun *see* S.-M. Moon 35
S.-I. Pyun and Y.-G. Chun
Role of alloying elements tin and aluminium in anodic behaviour of homogeneous copper based alloys in 3·5 wt-%NaCl solution 147

G. Quartarone *see* G. Moretti 49

S. Raicheva *see* G. Petkova 55
V. S. Raja and A. Ramkumar
Comparative study of intergranular corrosion behaviour of three high manganese austenitic stainless steels 153
V. S. Raja *see* A. Venugopal 318
A. Ramkumar *see* V. S. Raja 153
C. M. Rangel *see* V. Costa 227
T. V. L. N. Rao, M. V. Bhat, and D. H. Sastry
Corrosion and stress corrosion behaviour of an Mg–Li–Al alloy in presence of inhibitors in aqueous environments 44
M. R. Reda *see* J. N. Alhajji 125
H. H. Rehan *see* A. Baraka 119
N. S. Rengaswamy *see* L. J. Berchmans 223
C. Robyr, P. Mettraux, and D. Landolt
Microstructure and corrosion resistance of sputter deposited Fe–Cr–Mo coatings 65
P. R. P. Rodrigues, I. V. Aoki, A. H. P. de Andrade, E. de Oliveira, and S. M. L. Agostinho
Effect of benzotriazole on electrochemical and corrosion behaviour of type 304 stainless steel in 2M sulphuric acid solution 305
A. Roy *see* S. K. Bag 207
J. M. Ruiz-Prieto *see* F. Velasco 295
J. M. Ruiz-Román *see* F. Velasco 295

V. S. Sastri *see* A. W. Lui 158
D. H. Sastry *see* T. V. L. N. Rao 44
E. Schmidt-Rieder, X. Q. Tong, J. P. G. Farr, and M. Aindow
In situ electrochemical scanning probe microscopy corrosion studies on duplex stainless steel in aqueous NaCl solutions 139
H. M. Shalaby, A. Al-Hashem, and K. Al-Muhanna
Study of effect of pollutant additions on corrosion behaviour of Al–brass in sea water 199

A. Singh and R. S. Chaudhary
Dithizone and thiosemicarbazide as inhibitors of corrosion of type 304 stainless steel in 1·0M sulphuric acid solution 300
D. Singh *see* R. K. Dube 61
V. Sivan *see* L. J. Berchmans 223
E. Sokolova *see* G. Petkova 55

A. Tassan *see* G. Moretti 49
D. Thierry *see* F. Zhu 113
X. Q. Tong *see* E. Schmidt-Rieder 139
J. M. Torralba *see* F. Velasco 295
S. P. Trasatti and F. Mazza
Crevice corrosion: a neural network approach 105
A. Turnbull and A. J. Griffiths
Implications of hydrogen uptake and transport for environment assisted cracking testing and interpretation of results 39

L. Vehovar
Corrosion resistance of Acrom 1 Super extra low interstitial ferritic stainless steel 78
F. Velasco, J. M. Ruiz-Román, J. M. Torralba, and J. M. Ruiz-Prieto
Corrosion resistance of alloyed powder metallurgy austenitic stainless steels in acid solutions 295
S. Venkatakrishna Iyer *see* L. J. Berchmans 223
A. Venugopal and V. S. Raja
Evidence of dissolution–redeposition mechanism in activation of aluminium by indium 318
R. Walker
Stabilisation of marine iron artefacts 69
G. A. Wright *see* P. A. Dearnley 235
C. M. Younes *see* P. McIntyre 133
S. W. Yu and C. L. Page
Computer simulation of ionic migration during electrochemical chloride extraction from hardened concrete 73
Z. Zhang *see* L. Mascia 76
F. Zhu, S. Hedlund, and D. Thierry
Application of electrochemical impedance spectroscopy to study perforation corrosion of automotive materials 113
A. Zingales *see* G. Moretti 49

British Corrosion Journal Subject index 1996

Activation mechanisms
Evidence of dissolution–redeposition mechanism in activation of aluminium by indium Venugopal and Raja 318

Alloying
Corrosion resistance of alloyed powder metallurgy austenitic stainless steels in acid solutions Velasco *et al.* 295

Aluminium
Inhibition of corrosion of iron and aluminium Mayne 233

Aluminium alloys
Evidence of dissolution–redeposition mechanism in activation of aluminium by indium Venugopal and Raja 318

Aluminium pigments
Inhibition of corrosion of aluminium pigments by *ortho*-substituted phenol and aniline derivatives Müller 315

Aluminium–brass
Study of effect of pollutant additions on corrosion behaviour of Al–brass in sea water Shalaby *et al.* 199

Aminobenzimidazole
2-aminobenzimidazole as corrosion inhibitor for 70–30 brass in ammonia Bag *et al.* 207

Anisotropy
In situ electrochemical scanning probe microscopy corrosion studies on duplex stainless steel in aqueous NaCl solutions Schmidt-Rieder *et al.* 139

Anodic behaviour
Role of alloying elements tin and aluminium in anodic behaviour of homogeneous copper based alloys in 3·5 wt-%NaCl solution Pyun and Chun 147

Anodic polarisation
Dithizone and thiosemicarbazide as inhibitors of corrosion of type 304 stainless steel in 1·0M sulphuric acid solution Singh and Chaudhary 300

Anticorrosive film
2-aminobenzimidazole as corrosion inhibitor for 70–30 brass in ammonia Bag *et al.* 207

Benzotriazole
Effect of benzotriazole on electrochemical and corrosion behaviour of type 304 stainless steel in 2M sulphuric acid solution Rodrigues *et al.* 305

Brass
2-aminobenzimidazole as corrosion inhibitor for 70–30 brass in ammonia Bag *et al.* 207

Cathodic protection
Corrosion phenomena in coastal area of Arabian Gulf Ahmad 191
Evidence of dissolution–redeposition mechanism in activation of aluminium by indium Venugopal and Raja 318

Ceramic coatings
Corrosion behaviour of mild steel beneath porous plasma sprayed coatings Costa *et al.* 227

Chromium carbides
Corrosion response of fusion coated austenitic stainless steel Dearnley *et al.* 235

Coatings
Metal protection by sintered silica gel coatings Mascia and Zhang 76

Coil coatings
Application of electrochemical impedance spectroscopy to study perforation corrosion of automotive materials Zhu *et al.* 113

Computer simulation
Electrochemical chloride extraction from hardened concrete Yu and Page 73

Copper and copper alloys
Inhibitors for copper in cooling water Petkova *et al.* 55
Role of solution chemistry on corrosion of copper in synthetic solutions: effect of bicarbonate ion concentration on uniform and localised attack Alhajji and Reda 125
Role of alloying elements tin and aluminium in anodic behaviour of homogeneous copper based alloys in 3·5 wt-%NaCl solution Pyun and Chun 147

Corrosion fatigue
Hydrogen uptake and transport in EAC testing Turnbull and Griffiths 39

Corrosion morphology
Role of solution chemistry on corrosion of copper in synthetic solutions: effect of bicarbonate ion concentration on uniform and localised attack Alhajji and Reda 125
Study of effect of pollutant additions on corrosion behaviour of Al–brass in sea water Shalaby *et al.* 199

Corrosive wear
Control of corrosive wear in grinding balls during wet grinding of Cu–Zn–Fe sulphide ore Lui *et al.* 158
Corrosion response of fusion coated austenitic stainless steel Dearnley *et al.* 235

Crevice corrosion
Crevice corrosion: a neural network approach Trasatti and Mazza 105
Application of electrochemical impedance spectroscopy to study perforation corrosion of automotive materials Zhu *et al.* 113

Critical chloride concentration
Behaviour of stainless steel in simulated concrete pore solution Bertolini *et al.* 218

Critical humidity
Corrosion phenomena in coastal area of Arabian Gulf Ahmad 191

Current decay transients
Role of alloying elements tin and aluminium in anodic behaviour of homogeneous copper based alloys in 3·5 wt-%NaCl solution Pyun and Chun 147

Electrochemical behaviour
Study of effect of pollutant additions on corrosion behaviour of Al–brass in sea water Shalaby *et al.* 199

Electrochemical impedance spectroscopy
Corrosion of PVC coated steel during thinning of 0·5 M NaCl electrolyte layer Moon and Pyun 35
Application of electrochemical impedance spectroscopy to study perforation corrosion of automotive materials Zhu *et al.* 113
Evidence of dissolution–redeposition mechanism in activation of aluminium by indium Venugopal and Raja 318

Electrochemical potentiokinetic reactivation test
Comparative study of intergranular corrosion behaviour of three high manganese austenitic stainless steels Raja and Ramkumar 153

Electroless coating
Corrosion of electroless coated powder metallurgy iron compacts and strip Dube and Singh 61

Electroless nickel
Some factors affecting corrosion resistance of electroless nickel Jafar *et al.* 239

Environmentally assisted cracking
Hydrogen uptake and transport in EAC testing Turnbull and Griffiths 39

Environments
Aqueous alkaline media
Inhibition of corrosion of aluminium pigments by *ortho*-substituted phenol and aniline derivatives Müller 315
Bicarbonates
Role of solution chemistry on corrosion of copper in synthetic solutions: effect of bicarbonate ion concentration on uniform and localised attack Alhajji and Reda 125
Brackish water
Corrosion phenomena in coastal area of Arabian Gulf Ahmad 191
Chlorides
Inhibition of corrosion and stress corrosion of Mg–Li–Al Rao *et al.* 44
Stabilisation of marine iron artefacts Walker 69
Electrochemical chloride extraction from hardened concrete Yu and Page 73
Corrosion resistance of extra low interstitial ferritic stainless steel Vehovar 78
Crevice corrosion: a neural network approach Trasatti and Mazza 105
Cooling water
Inhibitors for copper in cooling water Petkova *et al.* 55
Dilute acids
Stress corrosion cracking of ferritic steels in acidic solutions Parkins 288
Halides
Oxidation behaviour of zirconium in molten $(Na,K)NO_3$ eutectic containing halide ions Baraka *et al.* 119
Hydrogen
Hydrogen uptake and transport in EAC testing Turnbull and Griffiths 39
Hydrogen sulphide
Hydrogen uptake and transport in EAC testing Turnbull and Griffiths 39
Inorganic acids
Corrosion resistance of extra low interstitial ferritic stainless steel Vehovar 78
Organic acids
Corrosion resistance of extra low interstitial ferritic stainless steel Vehovar 78
Sea water
Study of effect of pollutant additions on corrosion behaviour of Al–brass in sea water Shalaby *et al.* 199
Impedance measurements on Inconel and Monel alloys in Dead Sea water and sulphate solution Al-Abdallah 213
Sodium chloride
Corrosion of PVC coated steel during thinning of 0·5 M NaCl electrolyte layer Moon and Pyun 35
Hydrogen uptake and transport in EAC testing Turnbull and Griffiths 39
Corrosion resistance of sputter deposited Fe–Cr–Mo coatings Robyr *et al.* 65
Sulphates
Role of solution chemistry on corrosion of copper in synthetic solutions: effect of bicarbonate ion concentration on uniform and localised attack Alhajji and Reda 125
Impedance measurements on Inconel and Monel alloys in Dead Sea water and sulphate solution Al-Abdallah 213
Sulphuric acid
Indole derivatives as mild steel corrosion inhibitors in 0·5 M H_2SO_4 Moretti *et al.* 49
Effect of benzotriazole on electrochemical and corrosion behaviour of type 304 stainless steel in 2M sulphuric acid solution Rodrigues *et al.* 305
Tap water
Role of solution chemistry on corrosion of copper in synthetic solutions: effect of bicarbonate ion concentration on uniform and localised attack Alhajji and Reda 125

Erosion corrosion
Corrosion phenomena in coastal area of Arabian Gulf Ahmad 191

Fusion coating
Corrosion response of fusion coated austenitic stainless steel Dearnley *et al.* 235

Galvanic corrosion
Corrosion phenomena in coastal area of Arabian Gulf Ahmad 191

Grinding balls
Control of corrosive wear in grinding balls during wet grinding of Cu–Zn–Fe sulphide ore Lui *et al.* 158

Heat treatment
Some factors affecting corrosion resistance of electroless nickel Jafar *et al.* 239

Hipping
Corrosion behaviour of mild steel beneath porous plasma sprayed coatings Costa *et al.* 227

Hydrogen
Stress corrosion cracking of ferritic steels in acidic solutions Parkins 288

Hydrogen embrittlement
Stress corrosion cracking and hydrogen embrittlement susceptibility studies on modified 9Cr–1Mo steel weldments in acidic and neutral media Berchmans *et al.* 223

Hydrogen evolution
Inhibition of corrosion of aluminium pigments by *ortho*-substituted phenol and aniline derivatives Müller 315

Hydrogen uptake and transport in EAC testing
Hydrogen uptake and transport in EAC testing Turnbull and Griffiths 39

Impedance
Impedance measurements on Inconel and Monel alloys in Dead Sea water and sulphate solution Al-Abdallah 213

Inconel alloys
Impedance measurements on Inconel and Monel alloys in Dead Sea water and sulphate solution Al-Abdallah 213

Inhibitors and inhibition
Inhibition of corrosion and stress corrosion of Mg–Li–Al Rao *et al.* 44
Indole derivatives as mild steel corrosion inhibitors in 0·5 M H_2SO_4 Moretti *et al.* 49
Inhibitors for copper in cooling water Petkova *et al.* 55
Dithizone and thiosemicarbazide as inhibitors of corrosion of type 304 stainless steel in 1·0M sulphuric acid solution Singh and Chaudhary 300
Effect of benzotriazole on electrochemical and corrosion behaviour of type 304 stainless steel in 2M sulphuric acid solution Rodrigues *et al.* 305

Intergranular corrosion
Synergistic effects of impurities and sensitisation on intergranular corrosion and stress corrosion cracking in type 316H austenitic stainless steel McIntyre *et al.* 133
Comparative study of intergranular corrosion behaviour of three high manganese austenitic stainless steels Raja and Ramkumar 153

Iron
Corrosion of electroless coated powder metallurgy iron compacts and strip Dube and Singh 61
Stabilisation of marine iron artefacts Walker 69
Inhibition of corrosion of iron and aluminium Mayne 233

Iron alloys
Corrosion resistance of sputter deposited Fe–Cr–Mo coatings Robyr *et al.* 65

Kugel diffusion
Impedance measurements on Inconel and Monel alloys in Dead Sea water and sulphate solution Al-Abdallah 213

Langelier saturation index
Role of solution chemistry on corrosion of copper in synthetic solutions: effect of bicarbonate ion concentration on uniform and localised attack Alhajji and Reda 125

Laser refusion
Corrosion behaviour of mild steel beneath porous plasma sprayed coatings Costa *et al.* 227

Magnesium and magnesium alloys
Inhibition of corrosion and stress corrosion of Mg–Li–Al Rao *et al.* 44

Marine corrosion
Stabilisation of marine iron artefacts Walker 69

Monel alloys
Impedance measurements on Inconel and Monel alloys in Dead Sea water and sulphate solution Al-Abdallah 213

Multistage flash distillation
Corrosion phenomena in coastal area of Arabian Gulf Ahmad 191

$(Na,K)NO_3$ eutectic
Oxidation behaviour of zirconium in molten $(Na,K)NO_3$ eutectic containing halide ions Baraka *et al.* 119

Neural networks
Crevice corrosion: a neural network approach Trasatti and Mazza 105

Nickel and nickel alloys
Corrosion of electroless coated powder metallurgy iron compacts and strip Dube and Singh 61
Effect of iron dilution on corrosion resistance of Ni–Cr–Mo alloy cladding Gittos and Gooch 309

Oxalic acid test
Comparative study of intergranular corrosion behaviour of three high manganese austenitic stainless steels Raja and Ramkumar 153

Oxidation
Oxidation behaviour of zirconium in molten $(Na,K)NO_3$ eutectic containing halide ions Baraka *et al.* 119

Perforation corrosion
Application of electrochemical impedance spectroscopy to study perforation corrosion of automotive materials Zhu *et al.* 113

Phenol derivatives
Inhibition of corrosion of aluminium pigments by *ortho*-substituted phenol and aniline derivatives Müller 315

Pitting
In situ electrochemical scanning probe microscopy corrosion studies on duplex stainless steel in aqueous NaCl solutions Schmidt-Rieder *et al.* 139
Effect of iron dilution on corrosion resistance of Ni–Cr–Mo alloy cladding Gittos and Gooch 309

Pitting potential
Behaviour of stainless steel in simulated concrete pore solution Bertolini *et al.* 218

Plasma
Metal protection by sintered silica gel coatings Mascia and Zhang 76
Corrosion behaviour of mild steel beneath porous plasma sprayed coatings Costa *et al.* 227

Porosity
Corrosion of electroless coated powder metallurgy iron compacts and strip Dube and Singh 61
Electrochemical chloride extraction from hardened concrete Yu and Page 73

Potentiodynamic polarisation
Role of solution chemistry on corrosion of copper in synthetic solutions: effect of bicarbonate ion concentration on uniform and localised attack Alhajji and Reda 125

Powder metallurgy
Corrosion of electroless coated powder metallurgy iron compacts and strip Dube and Singh 61
Corrosion resistance of alloyed powder metallurgy austenitic stainless steels in acid solutions Velasco *et al.* 295

PVC
Corrosion of PVC coated steel during thinning of 0·5 M NaCl electrolyte layer Moon and Pyun 35

Reinforced concrete
Electrochemical chloride extraction from hardened concrete Yu and Page 73
Behaviour of stainless steel in simulated concrete pore solution Bertolini *et al.* 218

Sacrificial anodes
Evidence of dissolution–redeposition mechanism in activation of aluminium by indium Venugopal and Raja 318

Scanning probe microscopy
In situ electrochemical scanning probe microscopy corrosion studies on duplex stainless steel in aqueous NaCl solutions Schmidt-Rieder *et al.* 139

Sensitisation
Comparative study of intergranular corrosion behaviour of three high manganese austenitic stainless steels Raja and Ramkumar 153

Silica
Metal protection by sintered silica gel coatings Mascia and Zhang 76

Sol gels
Metal protection by sintered silica gel coatings Mascia and Zhang 76

Sputtered coatings
Corrosion resistance of sputter deposited Fe–Cr–Mo coatings Robyr *et al.* 65

Stabilisation
Stabilisation of marine iron artefacts R. Walker 69

Steels
Coated steels
Corrosion of PVC coated steel during thinning of 0·5 M NaCl electrolyte layer Moon and Pyun 35
Low alloy steels
Hydrogen uptake and transport in EAC testing Turnbull and Griffiths 39
Low carbon steels
Corrosion of PVC coated steel during thinning of 0·5 M NaCl electrolyte layer Moon and Pyun 35
Mild steel
Indole derivatives as mild steel corrosion inhibitors in 0·5 M H_2SO_4 Moretti *et al.* 49
Stress corrosion cracking of ferritic steels in acidic solutions Parkins 288
Stainless steels
Hydrogen uptake and transport in EAC testing Turnbull and Griffiths 39
Corrosion resistance of extra low interstitial ferritic stainless steel Vehovar 78
Crevice corrosion: a neural network approach Trasatti and Mazza 105
Synergistic effects of impurities and sensitisation on intergranular corrosion and stress corrosion cracking in type 316H austenitic stainless steel McIntyre *et al.* 133
In situ electrochemical scanning probe microscopy corrosion studies on duplex stainless steel in aqueous NaCl solutions Schmidt-Rieder *et al.* 139
Comparative study of intergranular corrosion behaviour of three high manganese austenitic stainless steels Raja and Ramkumar 153
Behaviour of stainless steel in simulated concrete pore solution Bertolini *et al.* 218
Corrosion response of fusion coated austenitic stainless steel Dearnley *et al.* 235
Corrosion resistance of alloyed powder metallurgy austenitic stainless steels in acid solutions Velasco *et al.* 295
Dithizone and thiosemicarbazide as inhibitors of corrosion of type 304 stainless steel in 1·0M sulphuric acid solution Singh and Chaudhary 300
Effect of benzotriazole on electrochemical and corrosion behaviour of type 304 stainless steel in 2M sulphuric acid solution Rodrigues *et al.* 305

Stress corrosion cracking
Inhibition of corrosion and stress corrosion of Mg–Li–Al Rao *et al.* 44
Synergistic effects of impurities and sensitisation on intergranular corrosion and stress corrosion cracking in type 316H austenitic stainless steel McIntyre *et al.* 133
Stress corrosion cracking and hydrogen embrittlement susceptibility studies on modified 9Cr–1Mo steel weldments in acidic and neutral media Berchmans *et al.* 223
Stress corrosion cracking of ferritic steels in acidic solutions Parkins 288

Sulphide ores
Technical note Control of corrosive wear in grinding balls during wet grinding of Cu–Zn–Fe sulphide ore Lui *et al.* 158

Surface engineering
Corrosion response of fusion coated austenitic stainless steel Dearnley *et al.* 235
Effect of iron dilution on corrosion resistance of Ni–Cr–Mo alloy cladding Gittos and Gooch 309

Tensile stress
Some factors affecting corrosion resistance of electroless nickel Jafar *et al.* 239

Test methods
Hydrogen uptake and transport in EAC testing Turnbull and Griffiths 39

Transpassivity
In situ electrochemical scanning probe microscopy corrosion studies on duplex stainless steel in aqueous NaCl solutions Schmidt-Rieder *et al.* 139

Welding
Effect of iron dilution on corrosion resistance of Ni–Cr–Mo alloy cladding Gittos and Gooch 309

Weldments
Stress corrosion cracking and hydrogen embrittlement susceptibility studies on modified 9Cr–1Mo steel weldments in acidic and neutral media Berchmans *et al.* 223

Zirconium
Oxidation behaviour of zirconium in molten $(Na,K)NO_3$ eutectic containing halide ions Baraka *et al.* 119